

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070820\
 Data File : VN062437.D
 Acq On : 9 Jul 2020 4:23
 Operator : JC/MD
 Sample : L3164-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-MW180-GW-588-590

Quant Time: Jul 09 05:11:10 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N070820W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 09 02:12:34 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	183457	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	331293	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	315804	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	112811	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	144439	51.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.38%	
35) Dibromofluoromethane	7.55	113	106007	51.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.54%	
50) Toluene-d8	10.06	98	429966	53.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.38%	
62) 4-Bromofluorobenzene	12.38	95	149514	50.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.22%	

Target Compounds

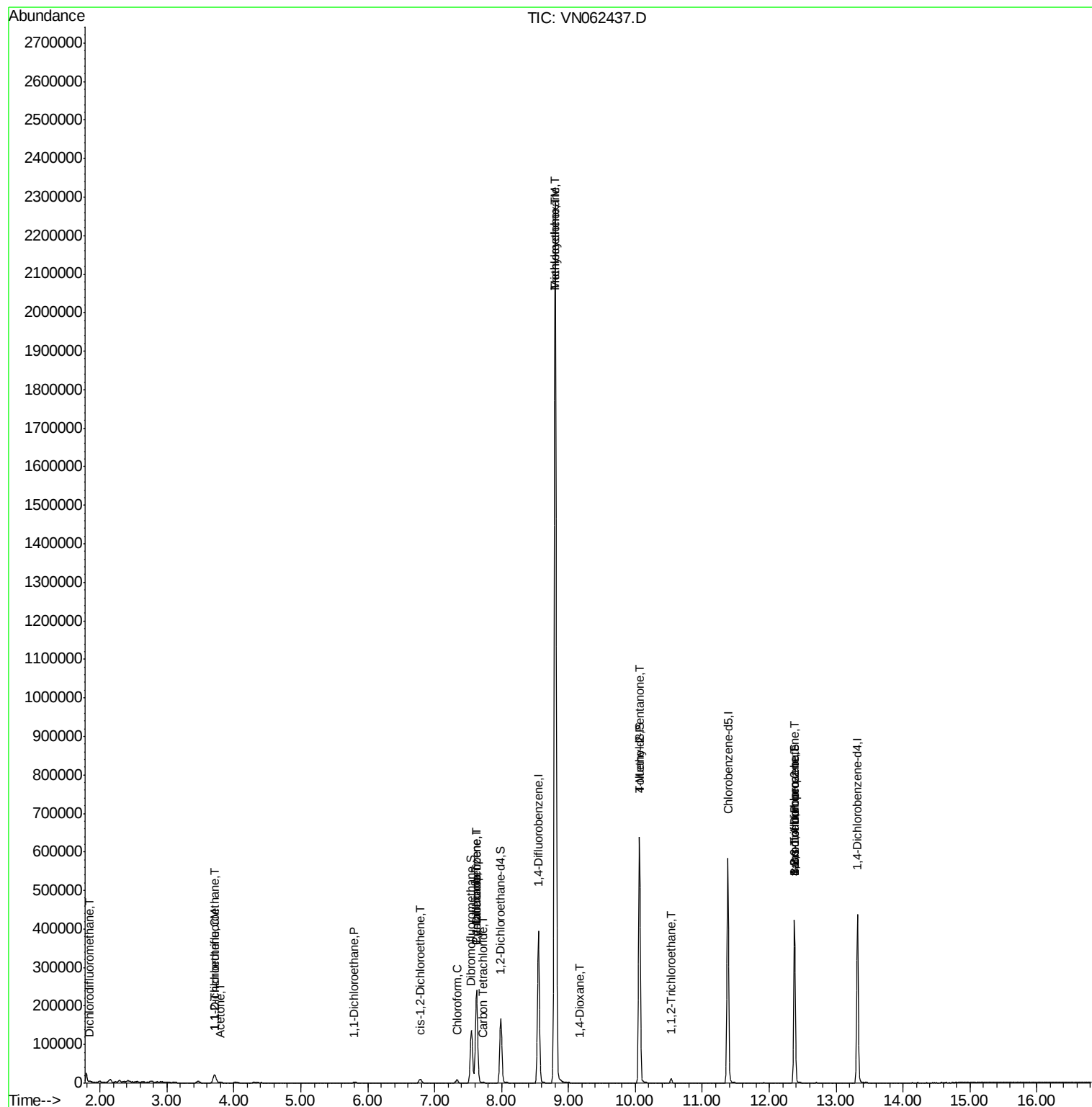
						Qvalue
2) Dichlorodifluoromethane	1.83	85	1165	0.623	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	3.73	101	9591	5.186	ug/l	97
12) 1,1-Dichloroethene	3.70	96	6111	3.245	ug/l	84
16) Acetone	3.79	43	3764	3.142	ug/l	90
24) 1,1-Dichloroethane	5.81	63	3500	0.774	ug/l #	85
27) cis-1,2-Dichloroethene	6.79	96	6213	2.629	ug/l	82
30) Chloroform	7.33	83	9112	2.232	ug/l	96
31) Cyclohexane	7.63	56	4880	1.139	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	16497	4.943	ug/l #	48
38) Carbon Tetrachloride	7.73	117	684	0.228	ug/l #	81
39) Methylcyclohexane	8.80	83	10923	3.065	ug/l #	1
44) Trichloroethene	8.80	130	802896	367.869	ug/l	98
49) 1,4-Dioxane	9.16	88	207	4.702	ug/l #	33
51) 4-Methyl-2-Pentanone	10.06	43	2239	0.608	ug/l #	1
55) 1,1,2-Trichloroethane	10.54	97	3915	1.752	ug/l	97
71) Bromoform	12.37	173	991	0.597	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	79830	28.840	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	79830	77.194	ug/l #	10

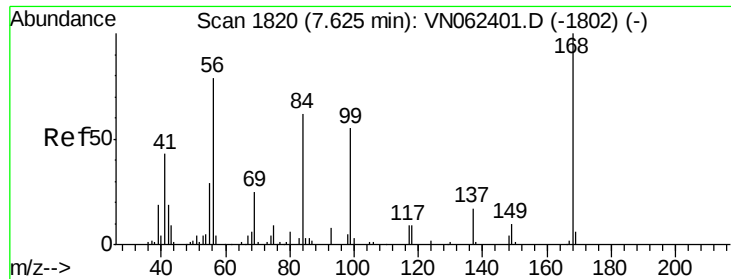
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN062437.D

Acq: 9 Jul 2020 4:23

Instrument :

MSVOA_N

ClientSampleId :

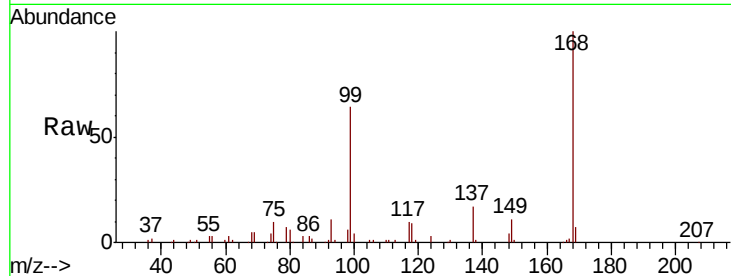
BP-MW180-GW-588-590

Tot Ion:168 Resp: 183457

Ion Ratio Lower Upper

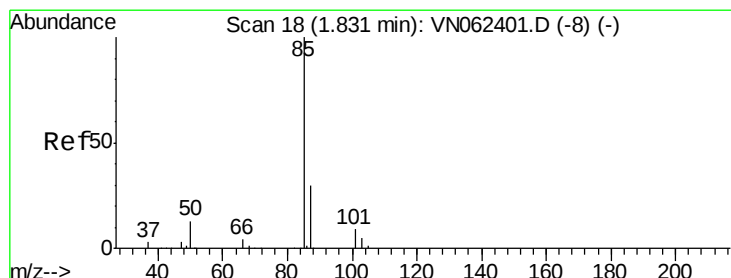
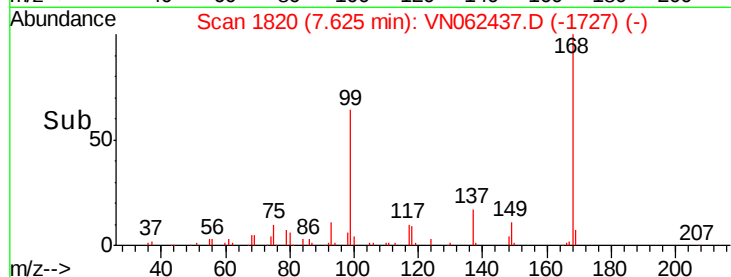
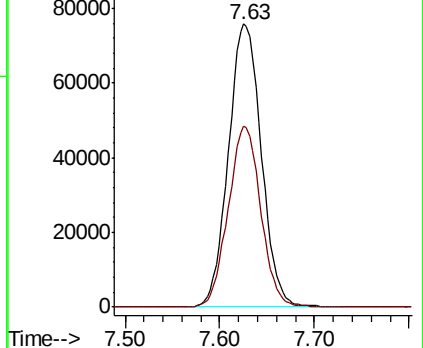
168 100

99 64.0 48.8 73.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#2

Dichlorodifluoromethane

Concen: 0.623 ug/l

RT: 1.83 min Scan# 18

Delta R.T. 0.00 min

Lab File: VN062437.D

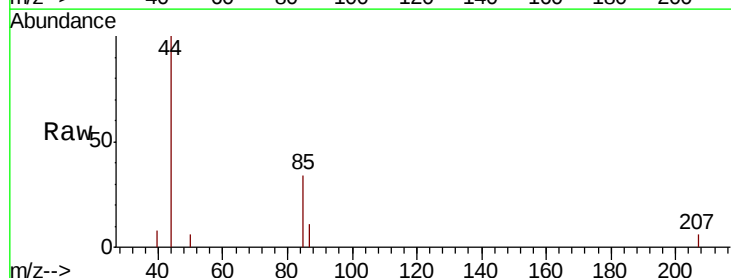
Acq: 9 Jul 2020 4:23

Tgt Ion: 85 Resp: 1165

Ion Ratio Lower Upper

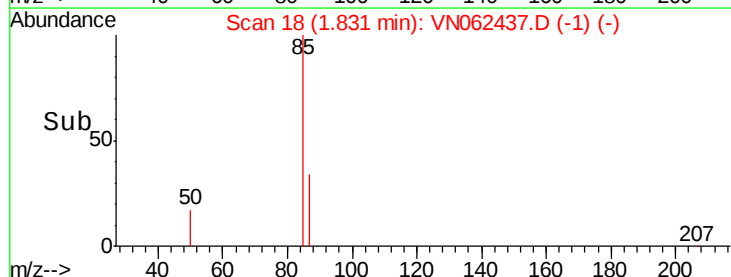
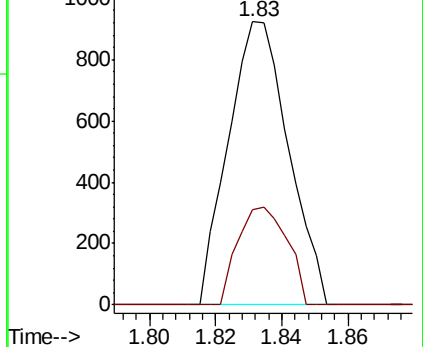
85 100

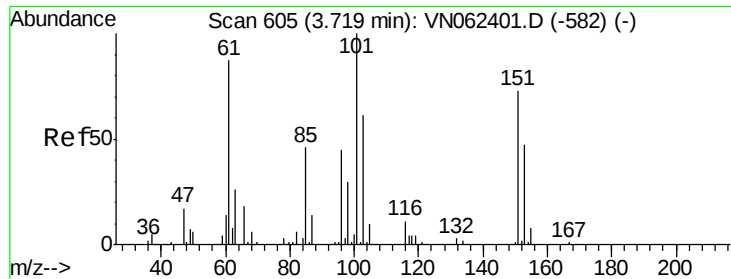
87 33.6 15.2 45.5



Abundance Ion 84.90 (84.60 to 85.60): VN0

Ion 86.90 (86.60 to 87.60): VN0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.186 ug/l

RT: 3.73 min Scan# 607

Delta R.T. 0.01 min

Lab File: VN062437.D

Acq: 9 Jul 2020 4:23

Instrument :

MSVOA_N

ClientSampleId :

BP-MW180-GW-588-590

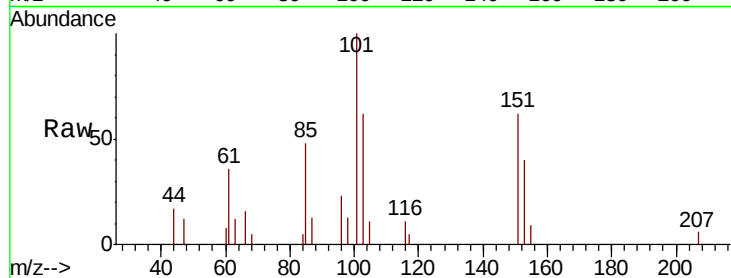
Tot Ion:101 Resp: 9591

Ion Ratio Lower Upper

101 100

85 46.5 36.7 55.1

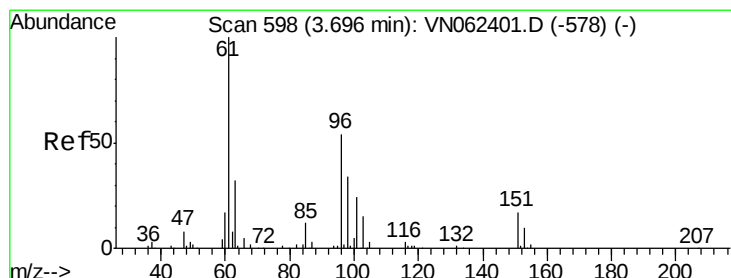
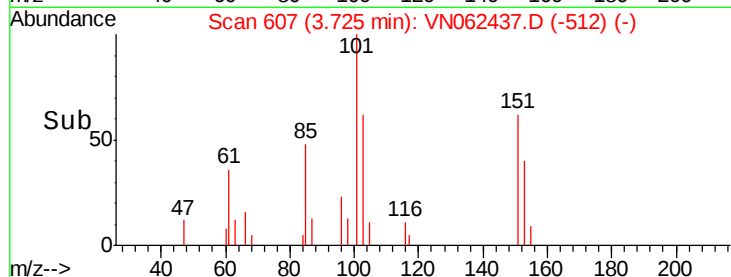
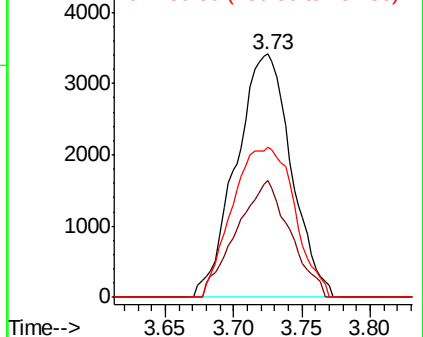
151 69.4 58.3 87.5



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VNO

Ion 150.80 (150.50 to 151.50): V



#12

1,1-Dichloroethene

Concen: 3.245 ug/l

RT: 3.70 min Scan# 598

Delta R.T. 0.00 min

Lab File: VN062437.D

Acq: 9 Jul 2020 4:23

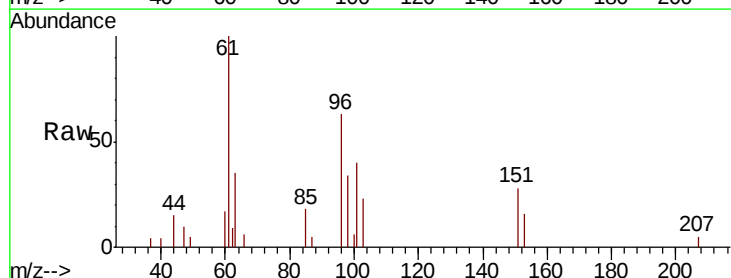
Tgt Ion: 96 Resp: 6111

Ion Ratio Lower Upper

96 100

61 159.1 147.4 221.0

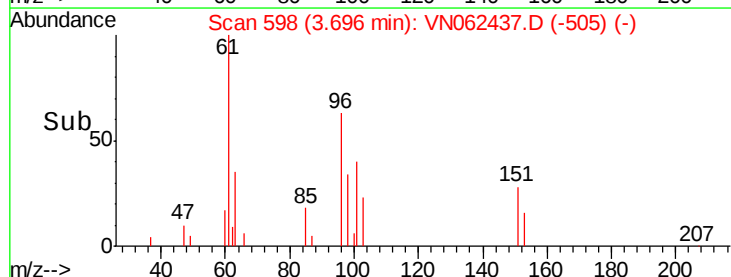
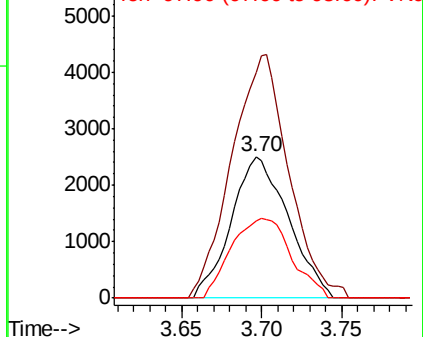
98 54.5 50.4 75.6

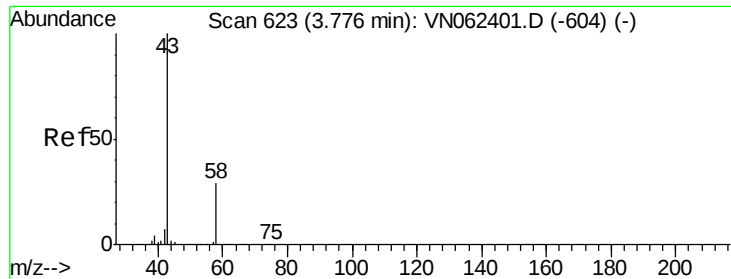


Abundance Ion 95.90 (95.60 to 96.60): VNO

Ion 60.90 (60.60 to 61.60): VNO

Ion 97.90 (97.60 to 98.60): VNO

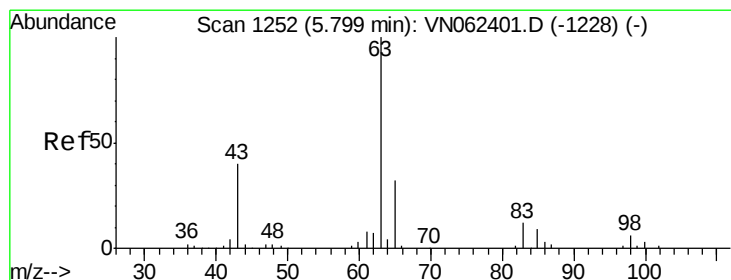
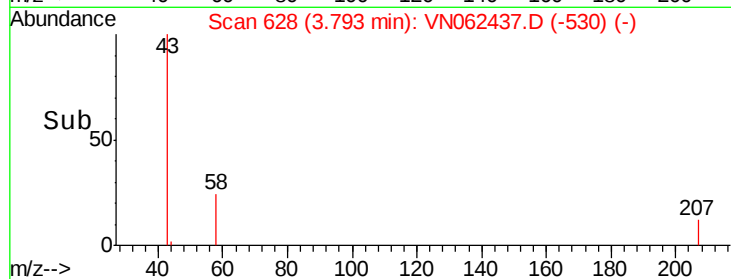
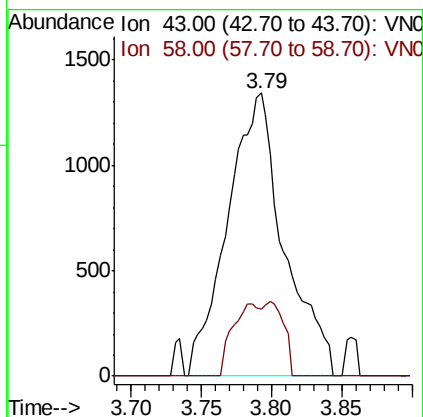
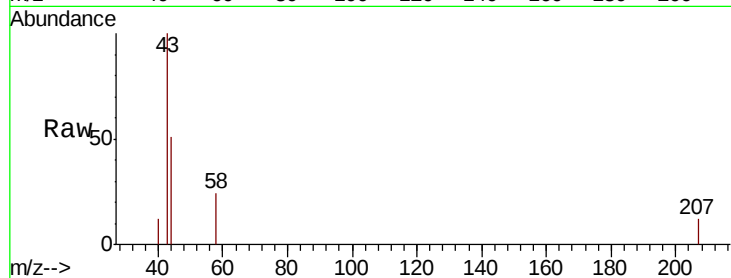




#16
Acetone
Concen: 3.142 ug/l
RT: 3.79 min Scan# 628
Delta R.T. 0.02 min
Lab File: VN062437.D
Acq: 9 Jul 2020 4:23

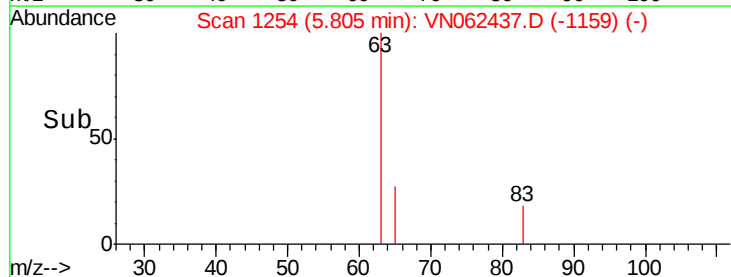
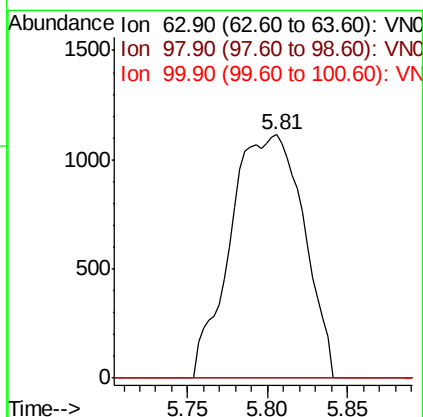
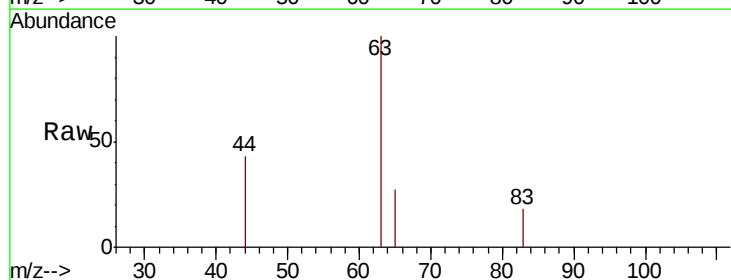
Instrument :
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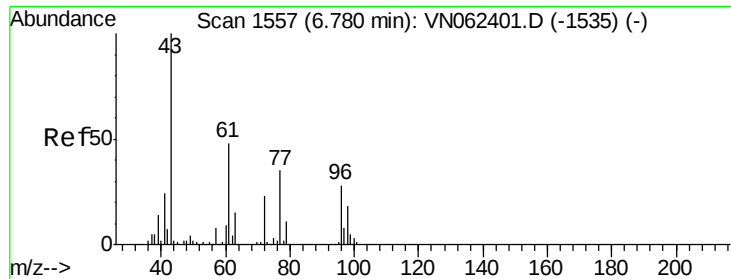
Tot Ion: 43 Resp: 3764
Ion Ratio Lower Upper
43 100
58 23.9 23.5 35.3



#24
1,1-Dichloroethane
Concen: 0.774 ug/l
RT: 5.81 min Scan# 1254
Delta R.T. 0.01 min
Lab File: VN062437.D
Acq: 9 Jul 2020 4:23

Tgt Ion: 63 Resp: 3500
Ion Ratio Lower Upper
63 100
98 0.0 2.9 8.8#
100 0.0 1.8 5.3#

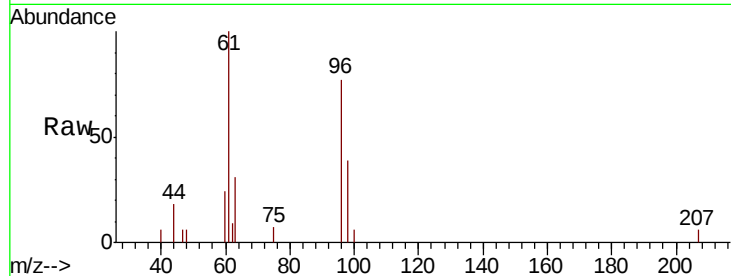




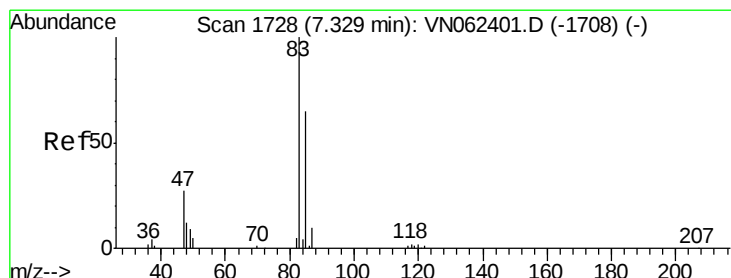
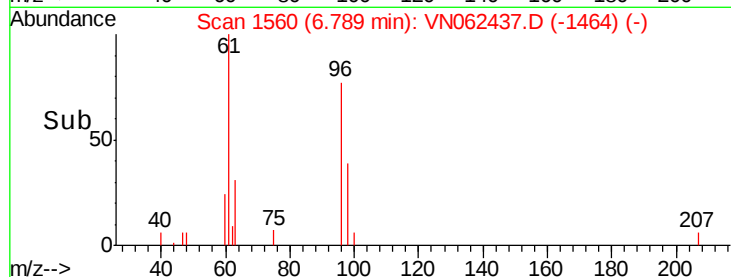
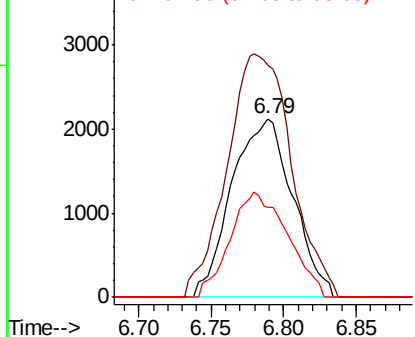
#27
 cis-1,2-Dichloroethene
 Concen: 2.629 ug/l
 RT: 6.79 min Scan# 1560
 Delta R.T. 0.01 min
 Lab File: VN062437.D
 Acq: 9 Jul 2020 4:23

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-MW180-GW-588-590

Tot Ion: 96 Resp: 6213
 Ion Ratio Lower Upper
 96 100
 61 143.8 0.0 343.4
 98 55.5 0.0 128.4

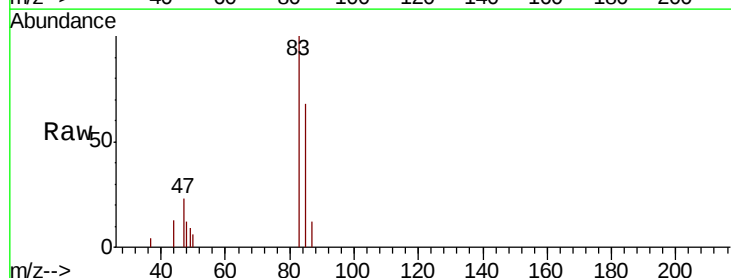


Abundance Ion 95.90 (95.60 to 96.60): VN0
 Ion 60.90 (60.60 to 61.60): VN0
 Ion 97.90 (97.60 to 98.60): VN0

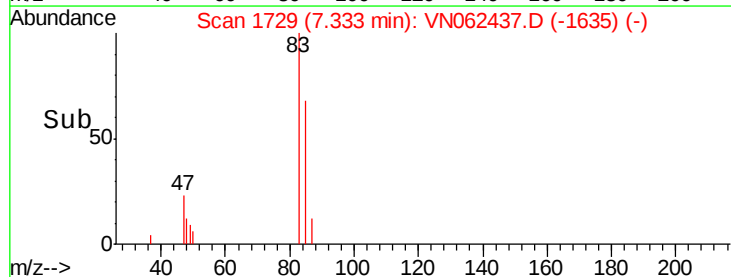
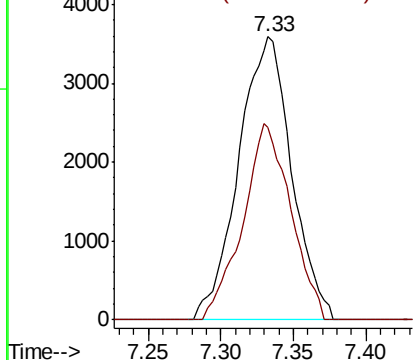


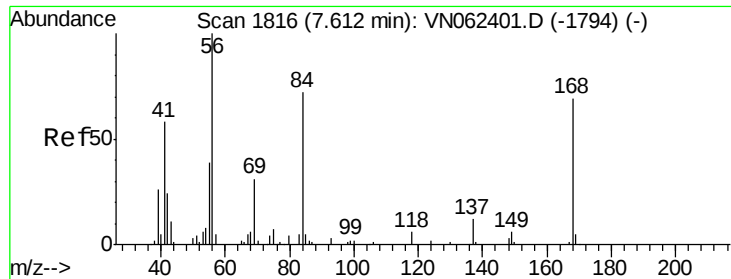
#30
 Chloroform
 Concen: 2.232 ug/l
 RT: 7.33 min Scan# 1729
 Delta R.T. 0.00 min
 Lab File: VN062437.D
 Acq: 9 Jul 2020 4:23

Tgt Ion: 83 Resp: 9112
 Ion Ratio Lower Upper
 83 100
 85 67.8 51.8 77.6



Abundance Ion 82.90 (82.60 to 83.60): VN0
 Ion 84.90 (84.60 to 85.60): VN0

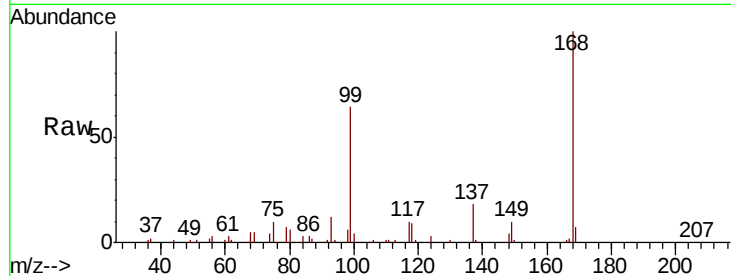




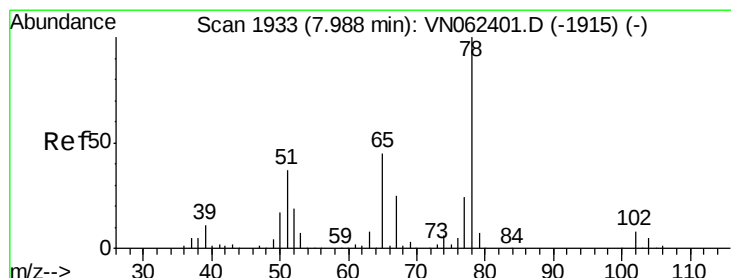
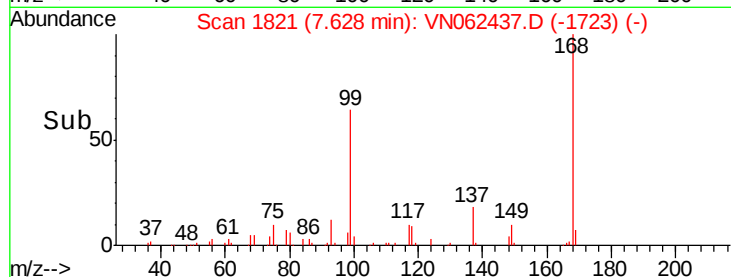
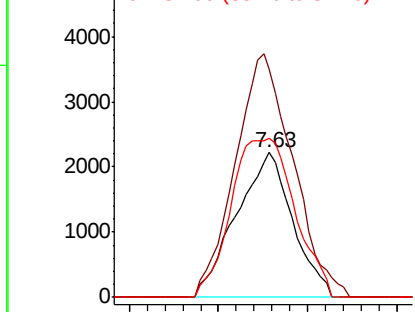
#31
Cyclohexane
Concen: 1.139 ug/l
RT: 7.63 min Scan# 1821
Delta R.T. 0.02 min
Lab File: VN062437.D
Acq: 9 Jul 2020 4:23

Instrument :
MSVOA_N
ClientSampleId :
BP-MW180-GW-588-590

Tot Ion: 56 Resp: 4880
Ion Ratio Lower Upper
56 100
69 157.4 24.5 36.7#
84 109.4 57.4 86.2#

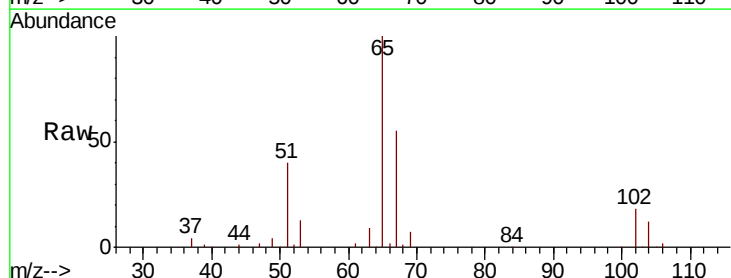


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

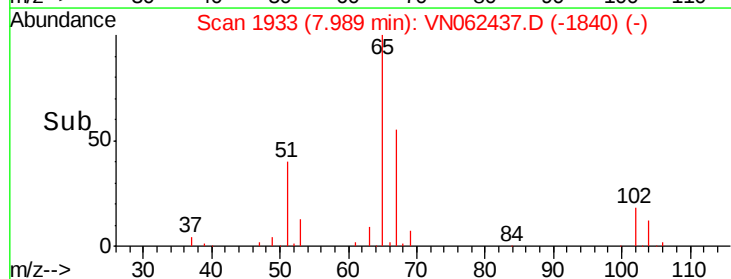
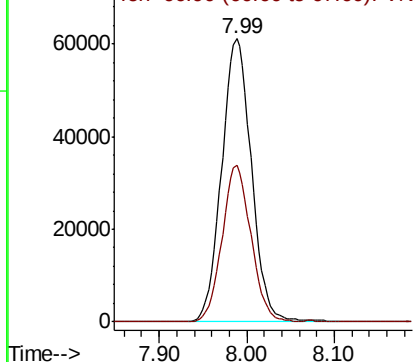


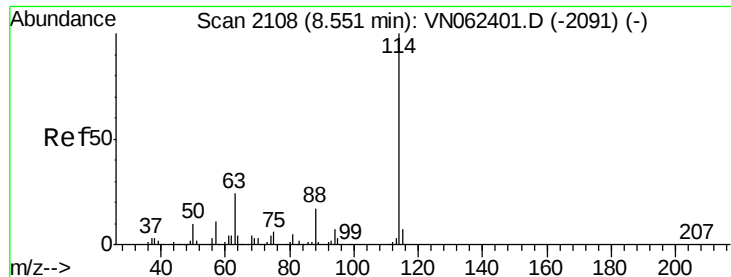
#33
1,2-Dichloroethane-d4
Concen: 51.187 ug/l
RT: 7.99 min Scan# 1933
Delta R.T. 0.00 min
Lab File: VN062437.D
Acq: 9 Jul 2020 4:23

Tgt Ion: 65 Resp: 144439
Ion Ratio Lower Upper
65 100
67 53.6 0.0 107.6



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

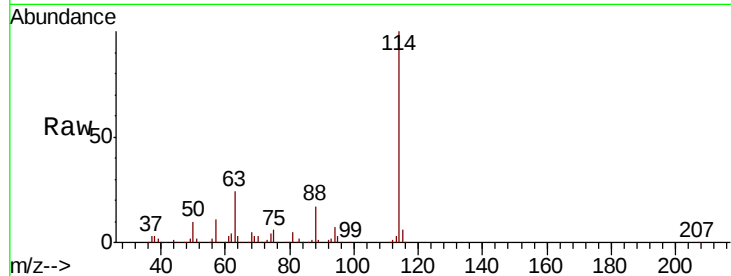




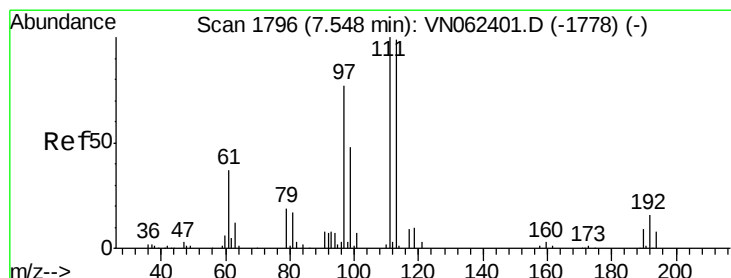
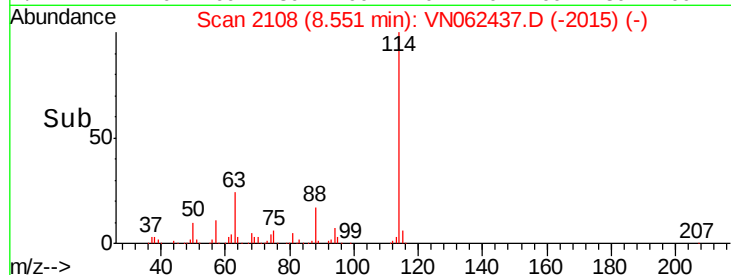
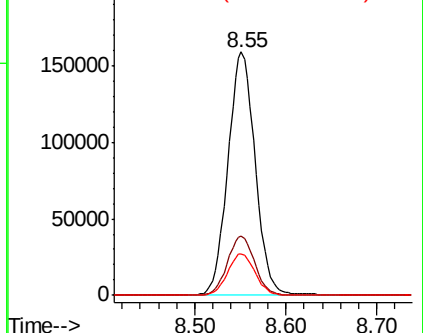
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN062437.D
 Acq: 9 Jul 2020 4:23

Instrument :
 MSVOA_N
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 BP-MW180-GW-588-590

Tot Ion	Ratio	Lower	Upper
114	100		
63	24.2	0.0	48.4
88	17.0	0.0	33.8

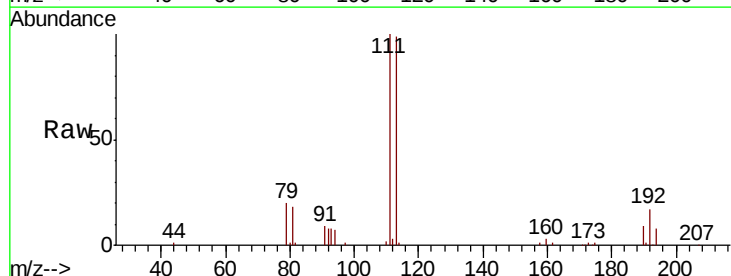


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

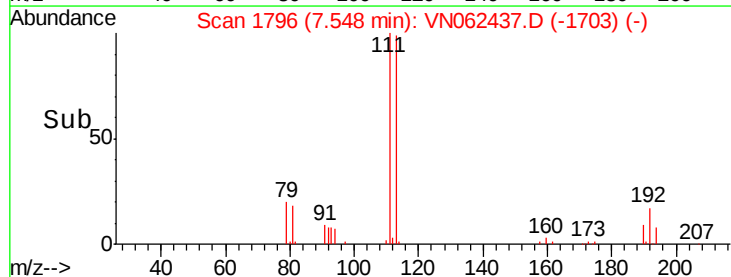
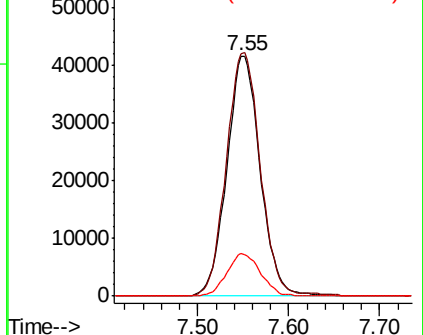


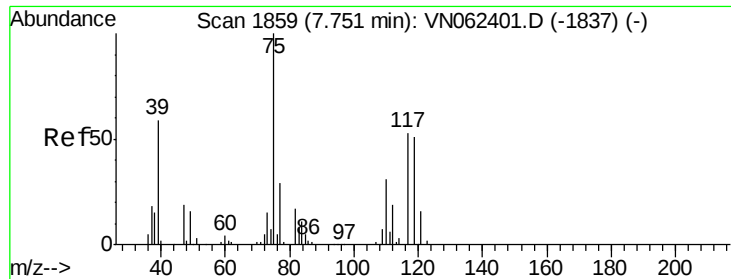
#35
 Dibromofluoromethane
 Concen: 51.765 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. 0.00 min
 Lab File: VN062437.D
 Acq: 9 Jul 2020 4:23

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.6	83.1	124.7
192	17.8	14.1	21.1



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

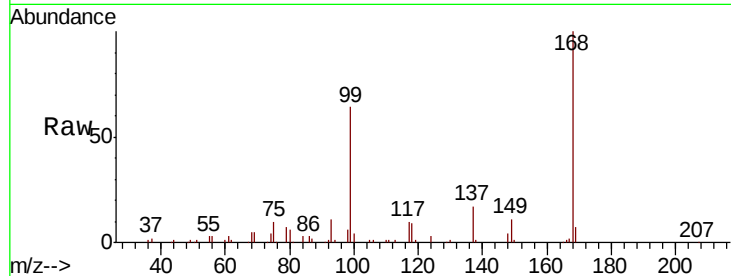




#36
 1,1-Dichloropropene
 Concen: 4.943 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN062437.D
 Acq: 9 Jul 2020 4:23

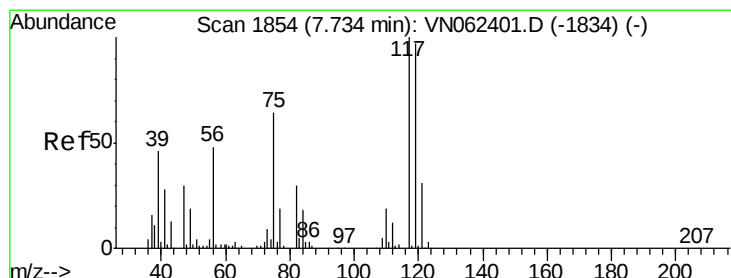
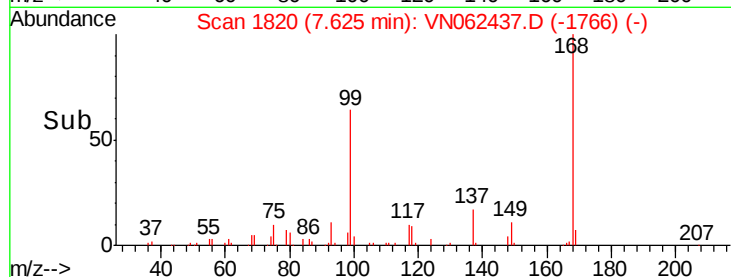
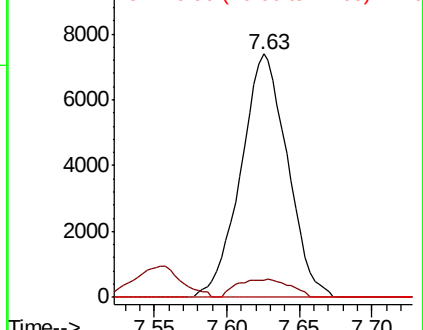
Instrument :
 MSVOA_N
 ClientSampleId :
 BP-MW180-GW-588-590

Tot Ion	Ratio	Lower	Upper
75	100		
110	3.8	15.4	46.2#
77	0.0	24.1	36.1#



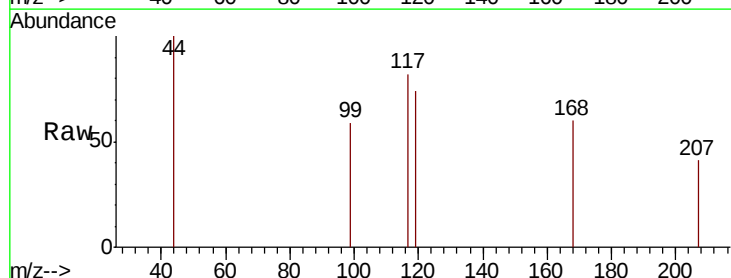
Abundance

Ion 74.90 (74.60 to 75.60): VN062401.D (-1837) (-)



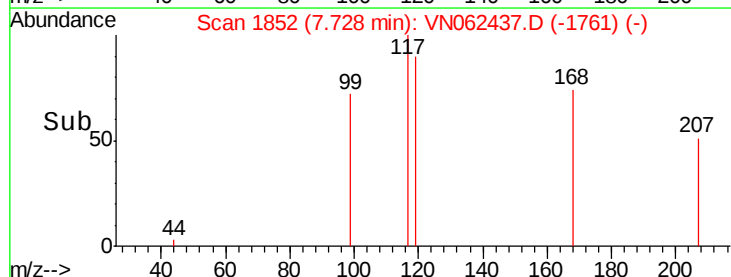
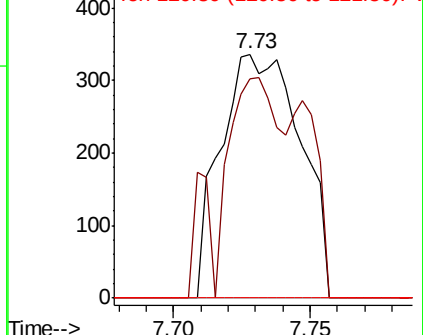
#38
 Carbon Tetrachloride
 Concen: 0.228 ug/l
 RT: 7.73 min Scan# 1852
 Delta R.T. -0.01 min
 Lab File: VN062437.D
 Acq: 9 Jul 2020 4:23

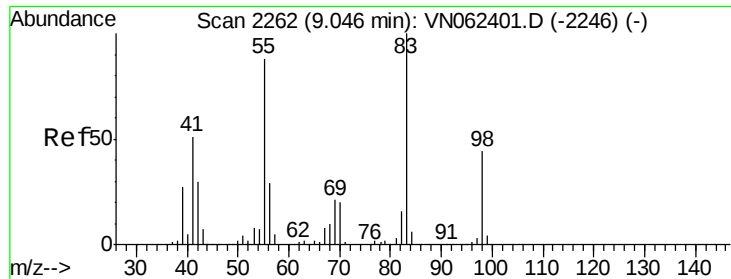
Tgt Ion	Ratio	Lower	Upper
117	100		
119	90.2	77.2	115.8
121	0.0	24.8	37.2#



Abundance

Ion 116.80 (116.50 to 117.50): VN062401.D (-1834) (-)

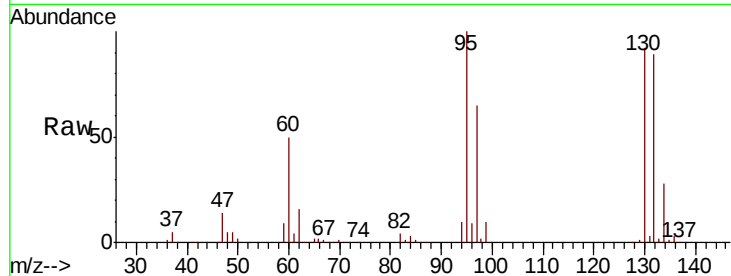




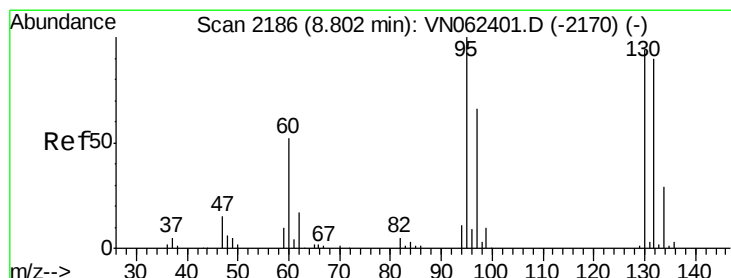
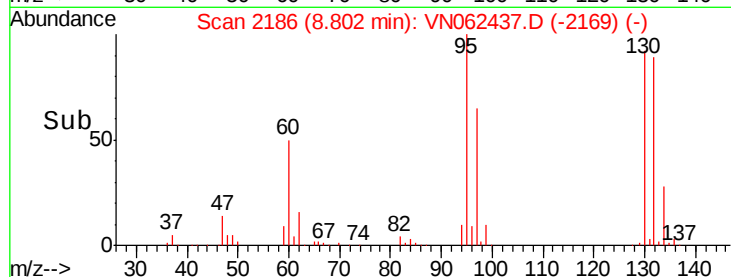
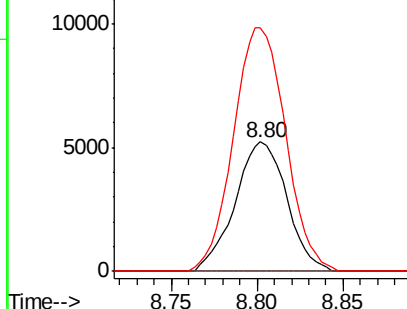
#39
Methylcyclohexane
Concen: 3.065 ug/l
RT: 8.80 min Scan# 2186
Delta R.T. -0.24 min
Lab File: VN062437.D
Acq: 9 Jul 2020 4:23

Instrument :
MSVOA_N
ClientSampleId :
BP-MW180-GW-588-590

Tot Ion: 83 Resp: 10923
Ion Ratio Lower Upper
83 100
55 0.0 70.5 105.7#
98 188.0 35.5 53.3#

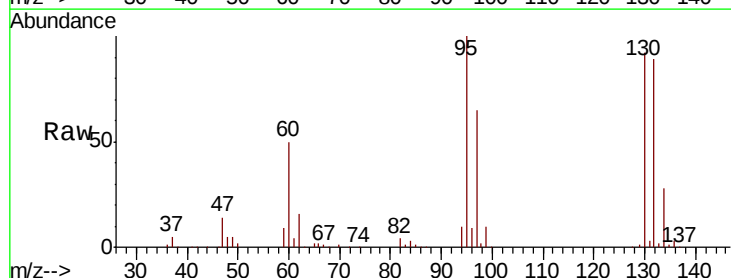


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

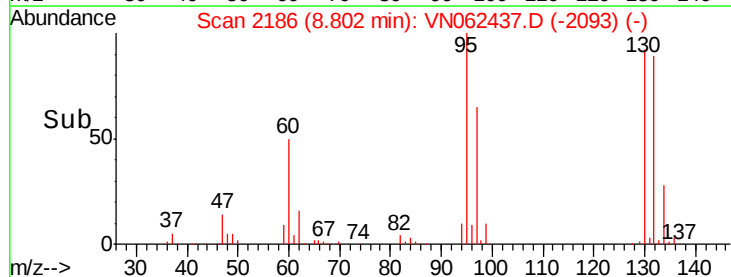
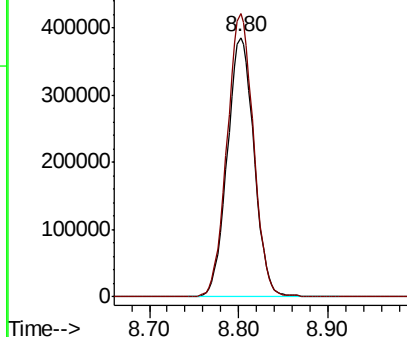


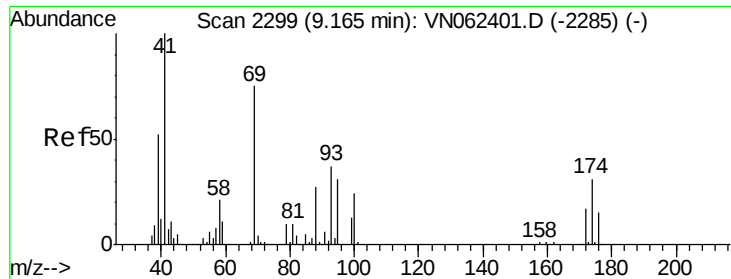
#44
Trichloroethene
Concen: 367.869 ug/l
RT: 8.80 min Scan# 2186
Delta R.T. 0.00 min
Lab File: VN062437.D
Acq: 9 Jul 2020 4:23

Tgt Ion:130 Resp: 802896
Ion Ratio Lower Upper
130 100
95 109.0 0.0 213.8



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): VN0

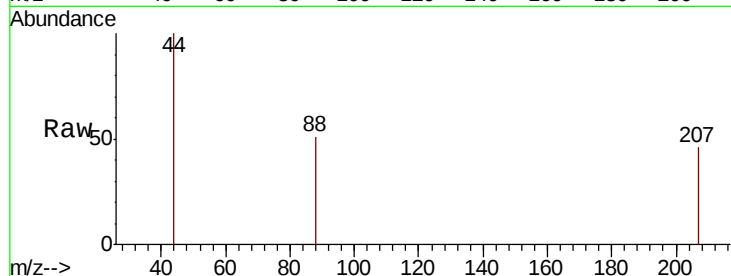




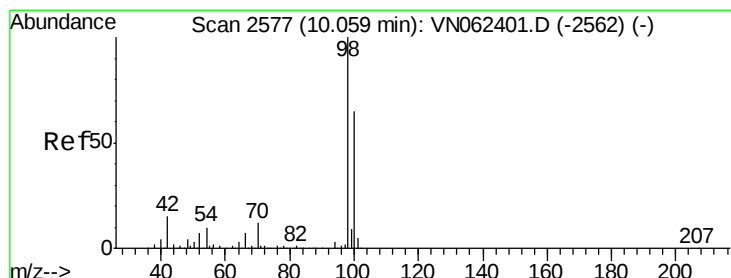
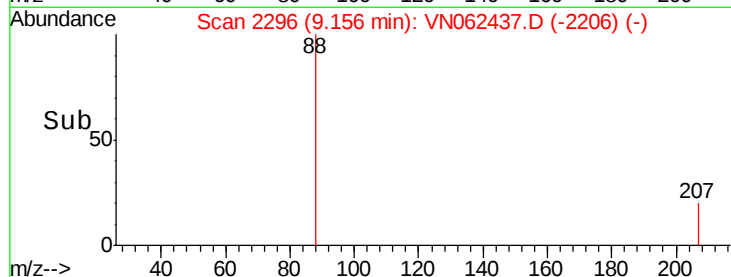
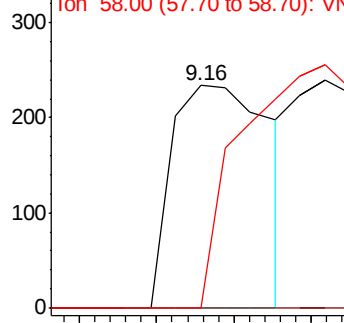
#49
1,4-Dioxane
Concen: 4.702 ug/l
RT: 9.16 min Scan# 2296
Delta R.T. -0.01 min
Lab File: VN062437.D
Acq: 9 Jul 2020 4:23

Instrument :
MSVOA_N
ClientSampleId :
BP-MW180-GW-588-590

Tot Ion: 88 Resp: 207
Ion Ratio Lower Upper
88 100
43 0.0 31.0 46.4#
58 139.1 63.3 94.9#

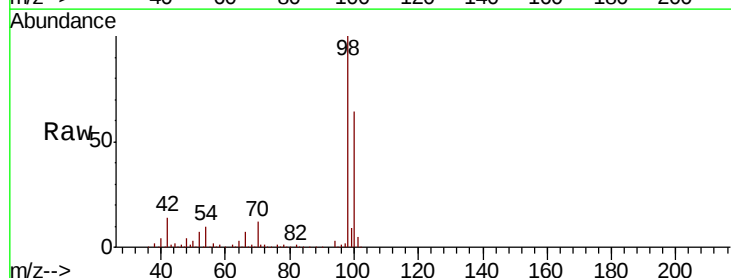


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

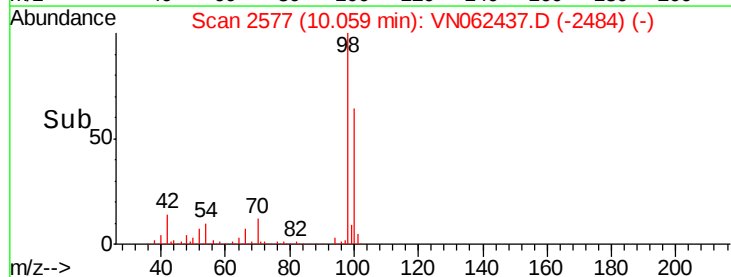
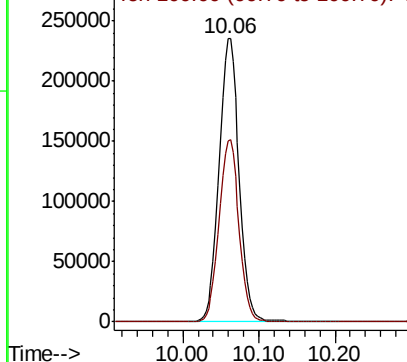


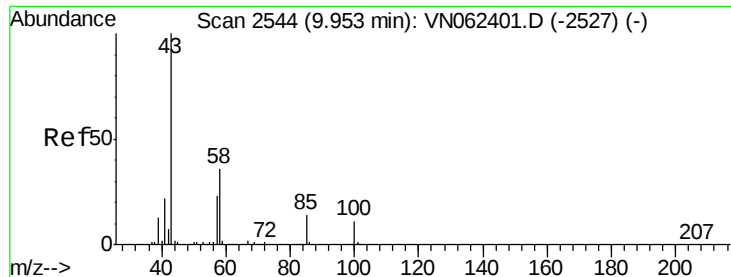
#50
Toluene-d8
Concen: 53.186 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. 0.00 min
Lab File: VN062437.D
Acq: 9 Jul 2020 4:23

Tgt Ion: 98 Resp: 429966
Ion Ratio Lower Upper
98 100
100 64.0 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

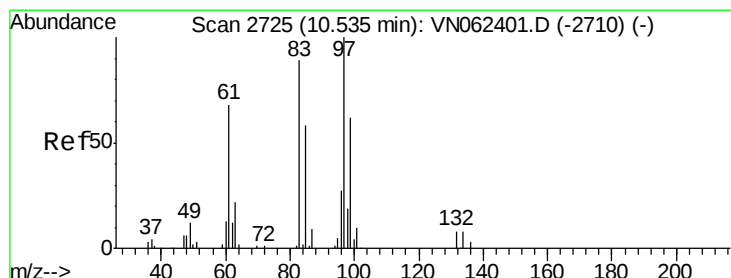
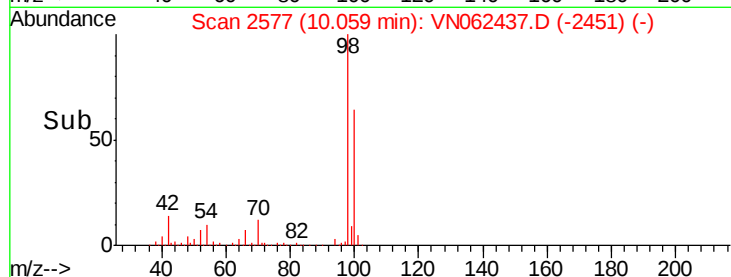
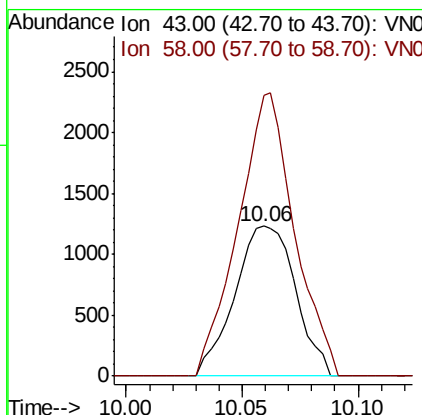
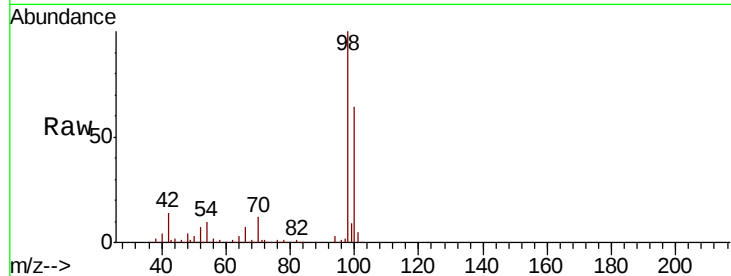




#51
 4-Methyl-2-Pentanone
 Concen: 0.608 ug/l
 RT: 10.06 min Scan# 2577
 Delta R.T. 0.11 min
 Lab File: VN062437.D
 Acq: 9 Jul 2020 4:23

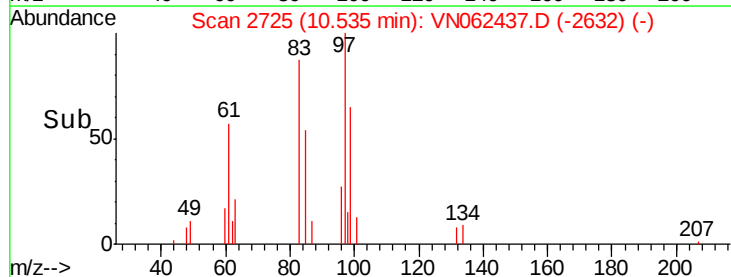
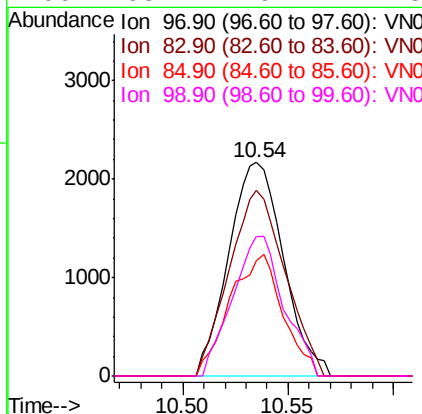
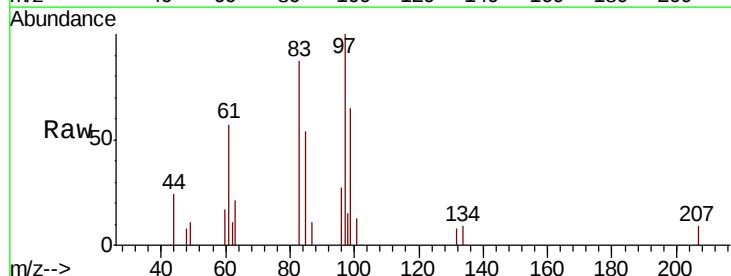
Instrument :
 MSVOA_N
 ClientSampleID :
 BP-MW180-GW-588-590

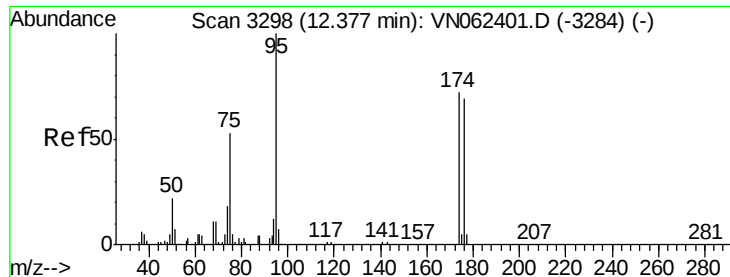
Tot Ion: 43 Resp: 2239
 Ion Ratio Lower Upper
 43 100
 58 175.2 29.0 43.6#



#55
 1,1,2-Trichloroethane
 Concen: 1.752 ug/l
 RT: 10.54 min Scan# 2725
 Delta R.T. 0.00 min
 Lab File: VN062437.D
 Acq: 9 Jul 2020 4:23

Tgt Ion: 97 Resp: 3915
 Ion Ratio Lower Upper
 97 100
 83 87.1 71.0 106.4
 85 54.1 46.2 69.4
 99 65.2 49.7 74.5





#62

4-Bromofluorobenzene

Concen: 50.610 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN062437.D

Acq: 9 Jul 2020 4:23

Instrument :

MSVOA_N

ClientSampleId :

BP-MW180-GW-588-590

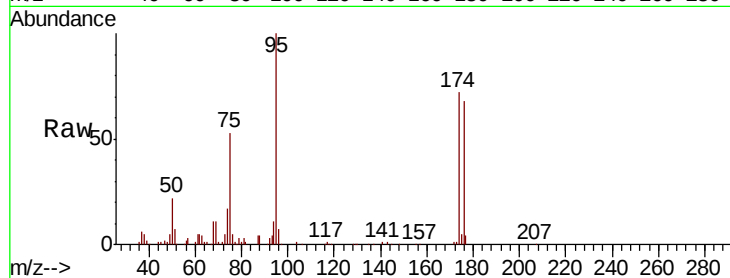
Tot Ion: 95 Resp: 149514

Ion Ratio Lower Upper

95 100

174 72.3 0.0 141.6

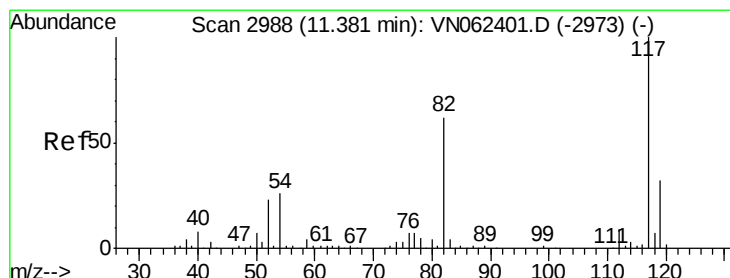
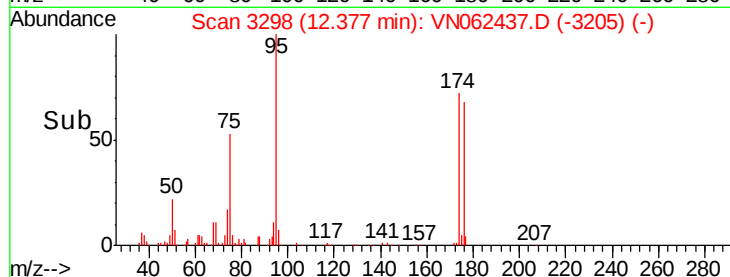
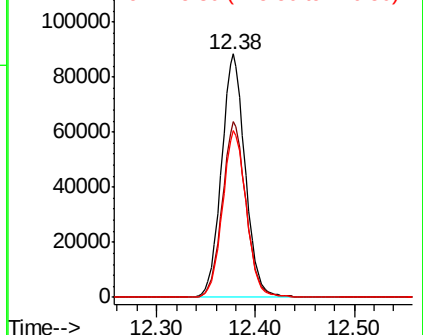
176 68.7 0.0 137.2



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. 0.00 min

Lab File: VN062437.D

Acq: 9 Jul 2020 4:23

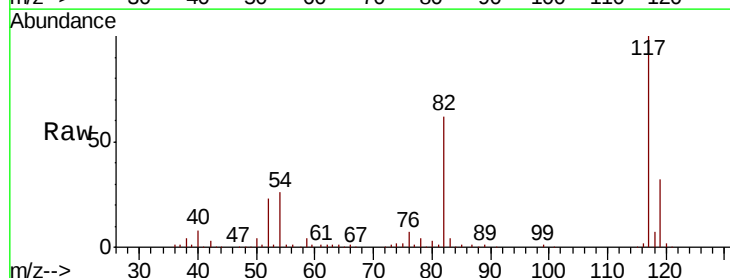
Tgt Ion: 117 Resp: 315804

Ion Ratio Lower Upper

117 100

82 61.9 49.6 74.4

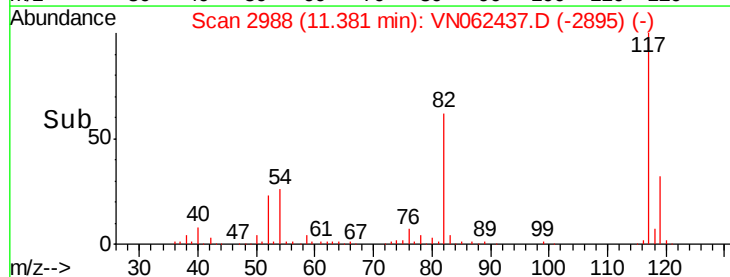
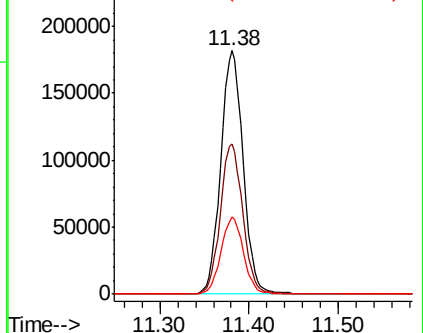
119 31.5 25.4 38.0

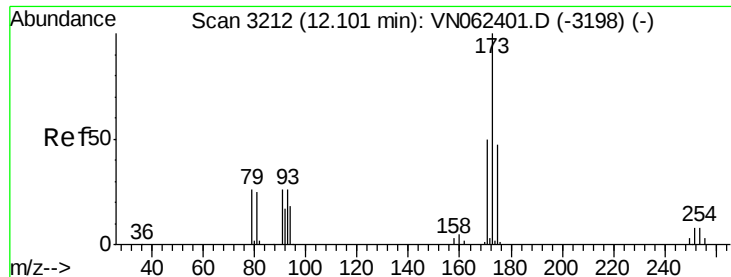


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0

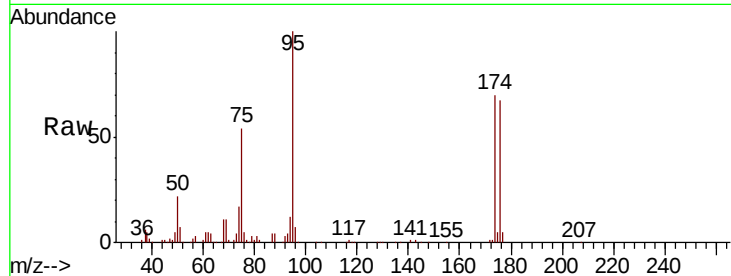




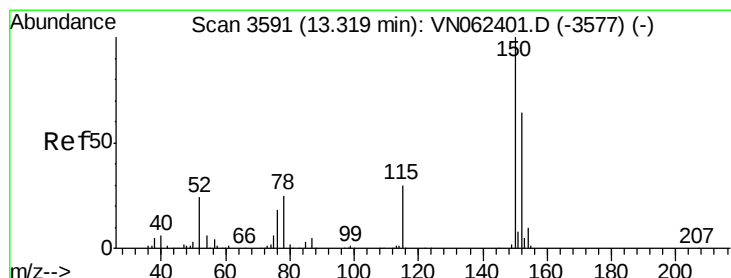
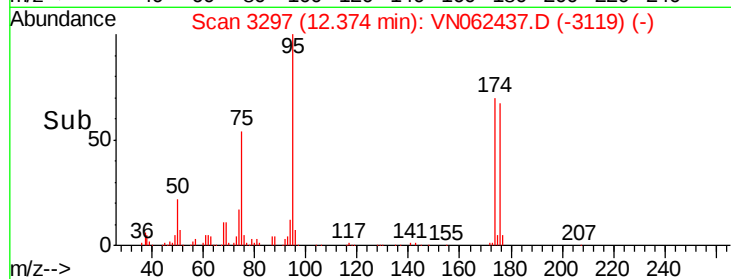
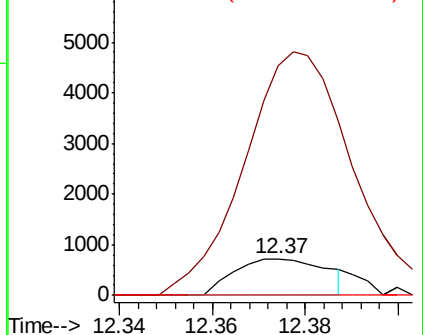
#71
Bromoform
Concen: 0.597 ug/l
RT: 12.37 min Scan# 3297
Delta R.T. 0.27 min
Lab File: VN062437.D
Acq: 9 Jul 2020 4:23

Instrument :
MSVOA_N
ClientSampleId :
BP-MW180-GW-588-590

Tot Ion:173 Resp: 991
Ion Ratio Lower Upper
173 100
175 645.4 23.7 71.1#
254 0.0 0.0 0.0

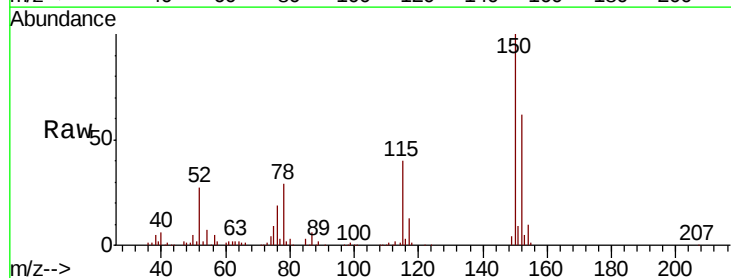


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

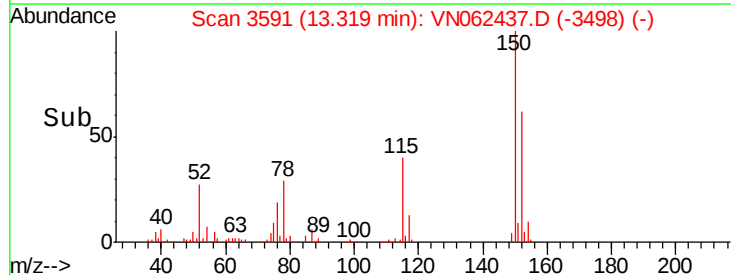
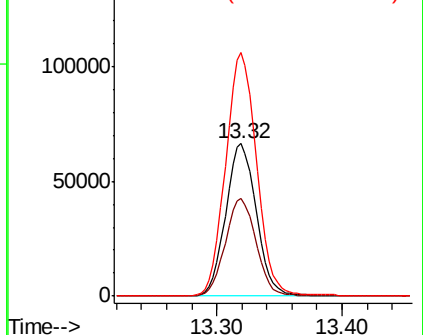


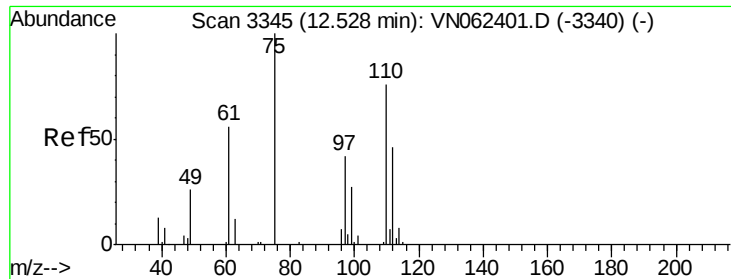
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3591
Delta R.T. 0.00 min
Lab File: VN062437.D
Acq: 9 Jul 2020 4:23

Tgt Ion:152 Resp: 112811
Ion Ratio Lower Upper
152 100
115 64.2 31.4 94.2
150 161.3 0.0 347.4



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 28.840 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062437.D

Acq: 9 Jul 2020 4:23

Instrument :

MSVOA_N

ClientSampleId :

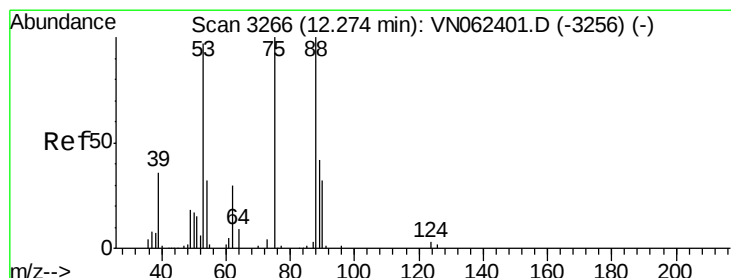
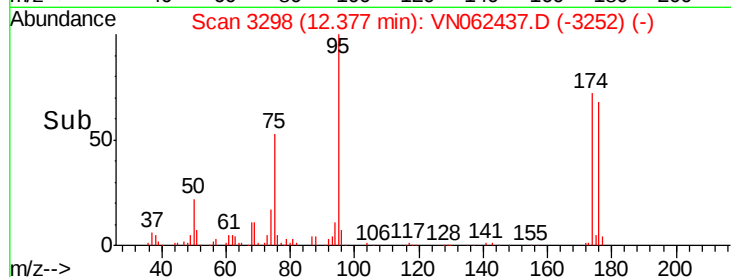
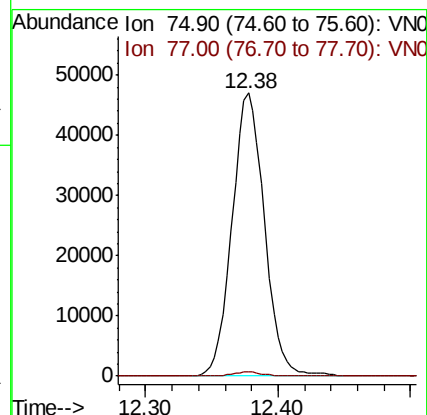
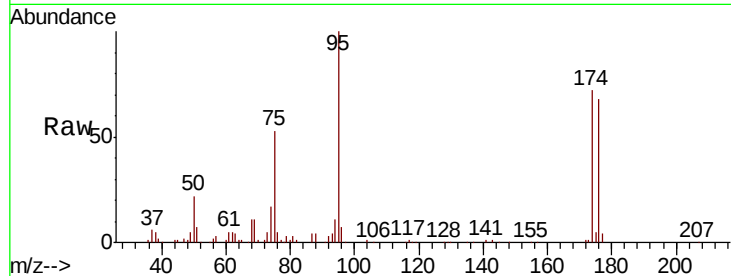
BP-MW180-GW-588-590

Tot Ion: 75 Resp: 79830

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 77.194 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062437.D

Acq: 9 Jul 2020 4:23

Tgt Ion: 75 Resp: 79830

Ion Ratio Lower Upper

75 100

53 0.0 79.2 118.8#

89 0.0 34.6 52.0#

